

Sequence Listing

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TECH CENTER 1600/2900

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<120> INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

<130> P1071P2.rev

<140> US 09/337,227

<141> 1999-06-22

<150> US 09/052,888

<151> 1998-03-31

<150> US 08/825,852

<151> 1997-04-04

<160> 51

<210> 1

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<220>

<221> Xaa

<222> 1-4, 6-7, 9, 11-12, 15-18

<223> Unknown amino acid

<220>

<221> Xaa

<222> 10, 13

<223> Leu or Nle at each position, which may be the same or different

<400> 1

Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Cys	Xaa
1				5				10				15	

Xaa Xaa Xaa

<210> 2

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

DO NOT  
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A.R. 9/11/13

<400> 2  
 Glu Ala Arg Val Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
           1                  5                  10                  15

Lys Tyr Phe

<210> 3  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized

<220>  
 <221> Xaa  
 <222> 2-3, 5, 7, 11-14  
 <223> Unknown amino acid

<220>  
 <221> Xaa  
 <222> 6, 9  
 <223> Leu or Nle at each position, which may be the same or different

<400> 3  
 Cys Xaa Xaa Gly Xaa Xaa Xaa Trp Xaa Cys Xaa Xaa Xaa Xaa  
           1                  5                  10

<210> 4  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized

<400> 4  
 Cys Arg Ala Gly Ala Leu Gln Trp Leu Cys Glu Lys Tyr Phe  
           1                  5                  10

<210> 5  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized

<400> 5  
 Cys Arg Ala Gly Arg Leu Gln Trp Leu Cys Glu Lys Tyr Phe  
           1                  5                  10

<210> 6  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized  
  
 <400> 6  
 Cys Arg Ala Gly Asn Leu Gln Trp Leu Cys Glu Lys Tyr Phe  
 1 5 10  
  
 <210> 7  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 6  
 <223> Xaa represents Nle  
  
 <400> 7  
 Cys Arg Ala Gly Pro Xaa Gln Trp Leu Cys Glu Lys Tyr Phe  
 1 5 10  
  
 <210> 8  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 9  
 <223> Xaa represents Nle  
  
 <400> 8  
 Cys Arg Ala Gly Pro Leu Gln Trp Xaa Cys Glu Lys Tyr Phe  
 1 5 10  
  
 <210> 9  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 9  
 Cys Arg Ala Gly Pro Leu Gln Arg Leu Cys Glu Lys Tyr Phe  
 1 5 10  
  
 <210> 10  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 8  
 <223> Xaa represents Nal(1)  
  
 <400> 10  
 Cys Arg Ala Gly Pro Leu Gln Xaa Leu Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 11  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 11  
 Cys Arg Ala Gly Pro Leu Gln His Leu Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 12  
 <211> 21  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 1-4, 16, 19  
 <223> Unknown amino acid  
  
 <400> 12  
 Xaa Xaa Xaa Xaa Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 Xaa Tyr Phe Xaa Thr Tyr  
                   20  
  
 <210> 13  
 <211> 21  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 13  
 Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 Lys Tyr Phe Ser Thr Tyr  
                   20

<210> 14  
 <211> 21  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 14  
 Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 Lys Tyr Phe Ala Thr Tyr  
                   20  
  
 <210> 15  
 <211> 21  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 15  
 Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 Lys Tyr Phe Gln Thr Tyr  
                   20  
  
 <210> 16  
 <211> 22  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 16  
 Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 Lys Tyr Phe Gln Thr Tyr Thr  
                   20  
  
 <210> 17  
 <211> 21  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 17  
 Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15

Lys Tyr Phe Asp Thr Tyr  
20

<210> 18  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 18  
Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Glu Thr Tyr  
20

<210> 19  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 19  
Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Lys Thr Tyr  
20

<210> 20  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 20  
Glu Ala Arg Val Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 21  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 21  
Gly Gln Gln Ser Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 22  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 22  
Ala Ser Ser Met Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 23  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 23  
Gln Gly Pro Asp Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 24  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Sequence is synthesized

<400> 24  
Gln Ala Ser Glu Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 25  
<211> 21  
<212> PRT  
<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 25

Ala Glu Thr Leu Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 26

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 26

Asn Ser Leu Leu Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 27

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 27

Ala Gln Trp Val Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

Lys Tyr Phe Ser Thr Tyr  
20

<210> 28

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 28

Gly Gln Gln Ser Cys Ala Ala Gly Pro Leu Gln Trp Leu Cys Glu  
1 5 10 15

His Tyr Phe Ser Thr Tyr  
20

<210> 29

<211> 23

<212> PRT

<213> Artificial sequence



<220>  
 <223> Sequence is synthesized  
  
 <400> 29  
 Gly Gln Gln Ser Cys Ala Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15  
  
 His Tyr Phe Ser Thr Tyr Gly Arg  
                   20  
  
 <210> 30  
 <211> 74  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 30  
 Gly Gly Gly Ser Gly Gly Ala Gln His Asp Glu Ala Val Asp Asn  
   1                  5                  10                  15  
  
 Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His  
                   20                  25                  30  
  
 Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser  
                   35                  40                  45  
  
 Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala  
                   50                  55                  60  
  
 Lys Lys Leu Asn Asp Ala Gln Ala Pro Asn Val Asp Met Asn  
                   65                  70  
  
 <210> 31  
 <211> 7  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 1, 4-7  
 <223> Unknown amino acid  
  
 <400> 31  
 Xaa Leu Ala Xaa Xaa Xaa Xaa  
   1                  5  
  
 <210> 32  
 <211> 19  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized

<220>  
 <221> Xaa  
 <222> 1-7, 11, 14-17, 19  
 <223> Unknown amino acid  
  
 <400> 32  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Leu Glu Xaa Leu Ala Xaa Xaa  
       1                      5          10                      15  
  
 Xaa Xaa Glu Xaa  
  
 <210> 33  
 <211> 15  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <220>  
 <221> Xaa  
 <222> 1-3, 7, 10-13  
 <223> Unknown amino acid  
  
 <400> 33  
 Xaa Xaa Xaa Pro Leu Glu Xaa Leu Ala Xaa Xaa Xaa Xaa Glu Gly  
       1                      5                      10                      15  
  
 <210> 34  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 34  
 Arg Ala Gly Pro Leu Glu Trp Leu Ala Glu Lys Tyr Glu Gly  
       1                      5                      10  
  
 <210> 35  
 <211> 12  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 35  
 Arg Pro Leu Glu Trp Leu Ala Glu Lys Tyr Phe Glu  
       1                      5                      10  
  
 <210> 36  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Sequence is synthesized  
  
 <400> 36  
 Arg Ala Gly Pro Leu Glu Trp Leu Ala Glu Lys Tyr Phe Glu  
   1                  5                  10  
  
 <210> 37  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 37  
 Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 38  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 38  
 Cys Arg Ala Ala Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 39  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 39  
 Cys Arg Ala Gly Pro Arg Gln Trp Leu Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 40  
 <211> 14  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 40  
 Cys Arg Ala Gly Pro Leu Gln Trp Arg Cys Glu Lys Tyr Phe  
   1                  5                  10  
  
 <210> 41  
 <211> 15  
 <212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 41

Cys	Arg	Ala	Gly	Pro	Leu	Gln	Trp	Leu	Cys	Glu	Lys	Tyr	Phe	Gly
1				5				10						15

<210> 42

<211> 15

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 42

Cys	Arg	Ala	Gly	Pro	Leu	Gln	Glu	Leu	Cys	Glu	Lys	Tyr	Ala	Glu
1				5				10						15

<210> 43

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 43

Leu	Glu	Trp	Leu	Ala	Glu	Lys	Tyr	Glu	Gly
1			5					10	

<210> 44

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 44

Pro	Leu	Glu	Trp	Leu	Ala	Glu	Lys	Tyr	Glu	Gly
1				5					10	

<210> 45

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 45

Leu	Glu	Trp	Leu	Ala	Glu	Lys	Tyr	Phe	Glu
1				5					10

<210> 46

<211> 4  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 46  
   Gly Gln Gln Ser  
   1  
  
 <210> 47  
 <211> 4  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 47  
   Ser Glu Val Gly  
   1  
  
 <210> 48  
 <211> 4  
 <212> PRT  
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 <220>  
 <223> Sequence is synthesized  
  
 <400> 48  
   Ser Glu Met Val  
   1  
  
 <210> 49  
 <211> 4  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 49  
   Glu Ala Arg Val  
   1  
  
 <210> 50  
 <211> 19  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is synthesized  
  
 <400> 50  
   Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu  
   1                  5                  10                  15

Lys Tyr Phe Gly

<210> 51

<211> 97

<212> PRT

<213> Artificial sequence

<220>

<223> Sequence is synthesized

<400> 51

Gly	Gln	Gln	Ser	Cys	Ala	Ala	Gly	Pro	Leu	Gln	Trp	Leu	Cys	Glu
1				5					10					15

His	Tyr	Phe	Ser	Thr	Tyr	Gly	Arg	Gly	Gly	Gly	Ser	Gly	Gly	Ala
				20					25					30

Gln	His	Asp	Glu	Ala	Val	Asp	Asn	Lys	Phe	Asn	Lys	Glu	Gln	Gln
				35					40					45

Asn	Ala	Phe	Tyr	Glu	Ile	Leu	His	Leu	Pro	Asn	Leu	Asn	Glu	Glu
				50					55					60

Gln	Arg	Asn	Ala	Phe	Ile	Gln	Ser	Leu	Lys	Asp	Asp	Pro	Ser	Gln
				65					70					75

Ser	Ala	Asn	Leu	Leu	Ala	Glu	Ala	Lys	Lys	Leu	Asn	Asp	Ala	Gln
				80					85					90

Ala	Pro	Asn	Val	Asp	Met	Asn
				95		